

## Elaine McCluskey

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**From:** finley@fnal.gov  
**Sent:** Tuesday, July 20, 2004 1:33 PM  
**To:** David Finley; Bill Foster; Vic Kuchler; Tom Lackowski; Shekhar Mishra; Dixon Bogert; Elaine McCluskey; Ed Crumpley; Chuck Federowicz; Weiren Chou; Duane Plant; David Finley; Duane Plant  
**Subject:** 7/21 PD Civil Meeting

Hi, All: We will meet Wednesday July 21 at 930AM in the Small Dining Room.

Bill might be pressed for time and might have to leave after 30 minutes, so please arrive on time as best you can. (In my view, when he arrives the meeting starts and when he leaves the meeting is over.)

The single agenda item is to continue the detailed discussions on the AP0 region.

(Plus anything I forgot.)

FYI, here are some notes from the previous two meetings ... and you know who you are if you are supposed to provide something ...

The cost of putting the 8 GeV line under the AP line is needed; most if not all of these costs are accounted for in the Main Injector project.

Tracing the 8 GeV H-minus transport line backwards, heading from the Main Injector towards AP0 and then northward inside the Tevatron footprint looks like it runs into less wetlands than heading southward inside the Tevatron footprint. This begins to locate the 8 GeV Linac inside the Tevatron footprint, and the location is well north of Lake Logo, and it lines up more or less pointing towards CDF and CHL.

More details, both civil and beam line components, of the area where the present 8 GeV line merges with the Main Injector are needed to continue detailed discussions.

It appears a good siting for the 8 GeV H-minus transport line from inside the Tevatron footprint towards the Main Injector is to run south of MI65 and the AP0 Target Hall and the F-sector building (F23?) inside the Tevatron footprint which feeds the AP0 Target Hall.

It would be good to miss the NuMI survey riser and NuMI vent shaft ... if so then the 8 GeV H-minus transport line goes between MI65 and the NuMI survey riser.

As far as technical considerations for the new Proton Driver are concerned, the present 8 GeV line to the MiniBooNE target can be fed with either the new Proton Driver or the existing Proton Source. If it fed from the new Proton Driver the H-minus would have to be stripped to protons before being sent up the line to the MiniBooNE target.

The ideal extraction angle has to be worked out. (This is for Bill.)

Cheers. Dave.